

OAQ Process Information Application PI-15: PORTLAND CEMENT MANUFACTURING

State Form 52556 (2-06)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, Indianapolis, IN 46204

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www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about the Portland Cement Manufacturing Processes. Complete one form for each process unit (or group of identical process units).
- Detailed instructions for this form are available online at www.IN.gov/idem/air/permits/apps/instructions/pi15instructions.html.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
 Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Portland Cement Manufacturing Processes							
Part A identifies the processes related to Portland Cement manufacturing and additional forms that may be needed.							
1. Process		2. Use the form listed for the specified processes. Check all that apply.					
a.	Quarry and/or Mine Activities	This form is included for quarrying and mine processes:	☐ PI-03	□ N/A			
b.	Raw Material Storage and Handling	This form is included for raw materials unloading / stora	ge: PI-03	□ N/A			
C.	Non-Metallic Mineral Processing (crushing and sizing of raw materials)	This form is included for the raw materials processing:	☐ PI-18	□ N/A			
d.	Ground Material Storage and Handling	This form is included for the raw mills storage / handling	: PI-03	□ N/A			
e.	Pre-heater / Pre-calciner	This form is included for the pre-heater:	☐ PI-02	□ N/A			
f.	Fuel used for pre-heater / pre-calciner (if other than natural gas)	Submit form if fuel other than Natural Gas used:	☐ PI-02F	□ N/A			
g.	Kiln	These forms are included for the kiln:	□ PI-02A□ PI-02E□ PI-02G□ PI-02H	N/AN/AN/AN/A			
h.	Fuel Type for Kiln (if other than Natural Gas)	Submit form if fuel other than Natural Gas used in the ki	ln: 	□ N/A			
i.	Clinker Material Storage and Handling	This form is included for the clinker storage / handling:	☐ PI-03	□ N/A			
j.	Non-Metallic Mineral Processing (crushing and sizing of clinker)	This form is included for clinker processing:	☐ PI-18	□ N/A			
k.	Other process(es)	This form is included for (specify process):		□ N/A			

PART B: Portland Cement Manufacturing Summary							
Part B identifies the Portland Cement Manufacturing details.							
3.	Maximum Amount of Raw Materials Processed:	tons per hour (tons/hr)					
		tons per year (tpy)					
	Raw Material (as a percentage of total):	☐ Calcium Carbonate					
		Aragonite					
4.		☐ Chalk					
		☐ Chalk					
		Other (specify):					
5.							
		Part C – Federal Rule Applicability					
Pa	rt C identifies any federal rules that ap						
6. Is a New Source Performance Standard (NSPS) applicable to this source? If yes, identify the affected emission units and attach a completed FED-01 for each rule That applies.							
	☐ 40 CFR Part 60, Subpart F Portland Cement Plants						
 ☐ 40 CFR Part 60, Subpart OOO ☐ 40 CFR Part 60, Subpart UUU ☐ Calciners and Dryers in Mineral Industries 							
8.	9.	Unit ID(s)					
☐ 40 CFR Part 63, Subpart LLL Portland Cement							
10.Non-Applicability Determination : Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.							

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PART D: Kiln Dust Operations							
Part D provides information about the	e Cement Kiln Dus	st (CKD) Op	erations.				
11.Type of Equipment	12.Unit ID	13.Installation Date		14.Maximum Throughput (tons/hr)			
The following section identifies all en	nission factors use	ed to calculat	te air emissi	ons from the c	ement kiln dust	t operations.	
15.Air Pollutant:		16.Emission Factor		17.Source of Emission Factor (if not using AP-42, include calculations)			
		value units					
Carbon Monoxide (CO)				☐ AP-42	Other	□ N/A	
Lead (Pb)				☐ AP-42	Other	☐ N/A	
Nitrogen Oxides (NO _x)				☐ AP-42	Other	□ N/A	
Particulate Matter (PM)				☐ AP-42	Other	□ N/A	
Particulate Matter less than 10μm (F	PM ₁₀)			☐ AP-42	Other	□ N/A	
Particulate Matter less than 2.5μm ((PM _{2.5})			☐ AP-42	Other	□ N/A	
Sulfur Dioxide (SO ₂)				☐ AP-42	Other	 ☐ N/A	
Volatile Organic Compounds (VC	OC)			☐ AP-42	Other	□ N/A	
Worst Case HAP (specify):				☐ AP-42	Other	 ☐ N/A	
Other (specify):				☐ AP-42	Other	 □ N/A	
18. Add-On Control Technology: /c	dentify all control tec	chnologies use	ed for this uni	t, and attach co	mpleted CE-01 (เ	unless "none").	
□ None							
☐ Baghouse / Fabric Filter – Atta	ach CE-02.	Γ] Cyclone –	Attach CE-03.			
☐ Electrostatic Precipitator – Att	tach CE-04.		Absorptior	ı / Wet Collect	tor / Scrubber –	Attach CE-05.	
☐ NO _X Reduction – Attach CE-09.						Attach CE-10.	
19. Control Techniques: Identify all	Il control technique	es used for th	nis process.				
20. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.							
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PART E: Clinker Cooler Operations							
Part E provides information about the clinker cooler.							
21.Type of Clinker Cooler	22.Unit ID	23.Installation Date		24.Maximum Throughput (tons/hr)			
The following section identifi	es all emission factors	used to calcula	te air emissi	ons from the c	linker cooler.		
25.Air Pollutant:		26.Emiss	26.Emission Factor		27. Source of Emission Factor		
		value units		(if not using AP-42, include calculations)			
Carbon Monoxide (CO)				☐ AP-42	Other	□ N/A	
Lead (Pb)				☐ AP-42	Other	□ N/A	
Nitrogen Oxides (NO _X)				☐ AP-42	Other	□ N/A	
Particulate Matter (PM)				☐ AP-42	Other	□ N/A	
Particulate Matter less that	an 10μm (PM ₁₀)			☐ AP-42	Other	□ N/A	
Particulate Matter less that	an 2.5μm (PM _{2.5})			☐ AP-42	Other	□ N/A	
Sulfur Dioxide (SO ₂)				☐ AP-42	Other	□ N/A	
Volatile Organic Compo	Volatile Organic Compounds (VOC)			☐ AP-42	Other	□ N/A	
Worst Case HAP (specify,):			☐ AP-42	Other	□ N/A	
Other (specify):				☐ AP-42	Other	□ N/A	
28.Add-On Control Techno	ology: Identify all control	l technologies use	ed for this unit,	, and attach con	npleted CE-01 (u	nless "none").	
□ None							
☐ Baghouse / Fabric Fi	lter – Attach CE-02.		☐ Cyclone –	Attach CE-03.			
☐ Electrostatic Precipita		Absorption / Wet Collector / Scrubber – Attach CE-05					
□ NO _X Reduction – Atta		Other (specify): — Atta					
29. Control Techniques: /a		iques used for ti	nis process.				
30. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.							